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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-354142

(43)Date of publication of application : 24.12.1999

(51)Int.Cl.

H01M 8/02
H01M 8/10
H01M 8/24

(21)Application number : 10-163717

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(22)Date of filing : 11.06.1998

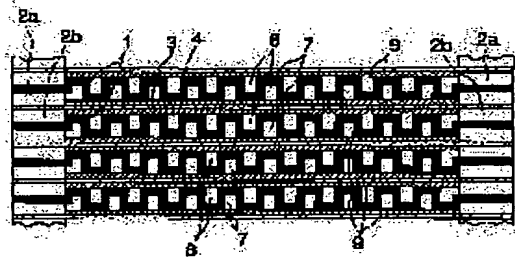
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(54) SOLID POLYMER ELECTROLYTE TYPE FUEL CELL

(57)Abstract:

PROBLEM TO BE SOLVED: To thin a separator, to compactify a size, to lighten weight, to simplify a system, to reduce a cost, and to eliminate cooling water required for humidifying reaction gas so as to enhance reliability of the system and maintenance property.

SOLUTION: In a solid polymer electrolyte type fuel cell provided with a cell stack constituted by laminating plurally via separators 1 unit cells comprising fuel electrodes 3, oxidant electrodes 4 arranged to sandwich at least solid polymer electrolyte films 9, each separator 1 is composed of a metal thin plate, plural parallel corrugated press-worked grooves 10 are formed in the obverse and reverse in the substantially central part of the separator 1, reaction gas passages 7, 8 are provided between the fuel cell 3 and the oxidant electrode 4, sheet like sealing members 2a, 2b are arranged in the obverse and the reverse to surrounding the substantially central part of the separator 1, and plural manifold holes for supplying/discharging the reaction gas and a coolant respectively are provided in contact parts of the sealing members 2a, 2b.



LEGAL STATUS

[Date of request for examination]

06.04.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

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[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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